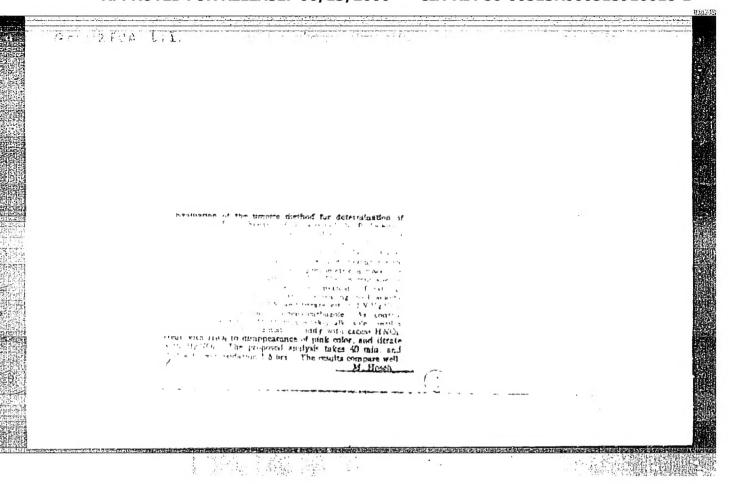
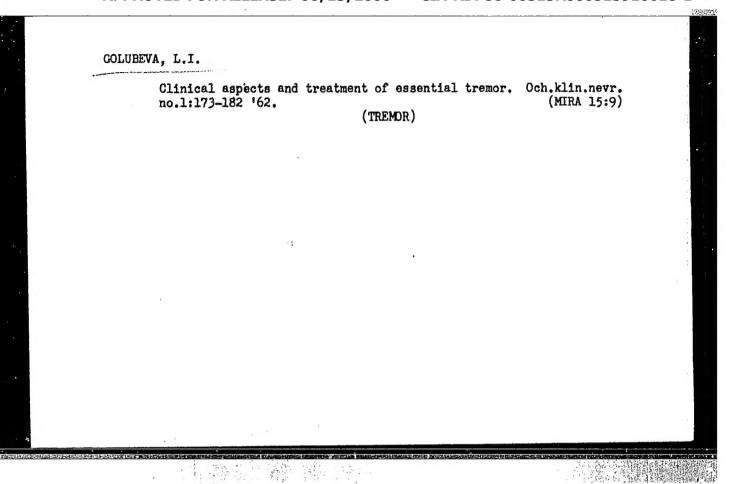
VASIL'YEVA, O.A.; GOLUBEVA, L.G.; DUBININ, M.M.; YEGOROVA, Ye.N.; SHISHAKOVA, T.N.; UL'KO, N.G.

Adsorption properties and maximum adsorption volumes of synthetic zeolites of types A and Y. Zhur. prikl. khim. 37 no.10:2158-2165 0 164. (MIRA 17:11)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910018-1"

中的政治建筑。





JD/JW/JO/GG EWT(1)/EXT(m)/EFF(n)-2/T/EXF(t) IJP(c) L 22061-66 SOURCE CODE: UR/0181/66/008/003/0680/0683 ACC NR: AP6009642 AUTHOR: Golubeva, L. A.; Pchelinskaya, S. N.; Smiryagina, S. A.; Shishelov, A. ORG: Leningrad Polytechnic Institute im. M. I. Kalinin (Leningradskiy politeki nicheskiv institut) TITLE: On the influence of x-irradiation on certain properties of lithium-fluoride single crystals 4 SOURCE: Fizika tverdogo tela, v. 8, no. 3, 1966, 680-683 TOPIC TAGS: lithium fluoride, single crystal, x irradiation, color center, crystal defect, dielectric loss, crystal lattice vacancy ABSTRACT: The purpose of the investigation was to establish a connection between the change in the volumes of the cells of IdF crystals and the occurrence in these crystals of processes which change the dielectric losses. To this end, single crystals of LiF were exposed to x-rays at doses ranging from 2.1 to 86.7 microroentgen and their dielectric constant and capacitance measured with an ac bridge (60--20 kcs). The results showed that the crystal lattice constant increased even with the smallest x-ray dose, indicating that irradiation produces not only the appearance of color centers but also of lattice defects which increase the losses.

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ACC NR: AP6009642

The accompanying decrease in density (measured by a flotation method) can be shown to be due only to a change in the lattice volume. The increase in the lattice constant and the change in the loss angle due to the irradiation are briefly discussed from the point of view of formation of vacancies as a result of ionization. The decrease in conductivity leads to a decrease in the dielectric losses. The authors thank B. P. Konstantinev for help with the work. Orig. art. has: 3 figures, 1 formula, and 1 table.

SUB CODE: 20/ SUBM DATE: 05Jul65/ ORIG REF: 002/ OTH REF: 007

Card 2/2 MJS

GOLUBEVA, L.S.

PHASE I BOOK EXPLOITATION

sov/4508

Akademiya nauk SSSR. Institut metallurgii

- Titan i yego splavy, vyp. 3: Metallovedeniye titana (Titanium and Its Alloys, No. 3: Metal Science of Titanium) Moscow, Izd-vo AN SSSR, 1960, 161 p. Errata slip inserted. 2.700 copies printed.
- Sponsoring Agency: Akademiya nauk SSSR. Institut metallurgii imeni A.A. Baykova.
- Resp. Ed.: N.V. Ageyev, Corresponding Member, Academy of Sciences USSR; Ed. of Publishing House: M.L. Podgoyetskiy; Tech. Ed.: Ye. V. Makuni.
- FURPOSE: This collection of articles is intended for scientific research workers and metallurgical engineers.
- COVERAGE: The articles summarize results of experimental studies of titanium-base alloys. The microstructure and mechanical properties of titanium-base alloys containing aluminum, chromium or other metals are analyzed along with the effect of oxygen, hydrogen and heat treatment on alloy structure and properties. The tendency of titanium alloys to embrittlement as a result of strain Card-1/5

Titanium and Its Alloys (Cont.)

SOV/4508

aging is emphasized, and the nitriding of titanium, carried out to increase the aurface strength and wear resistance of titanium alloys, is described. Transformations occurring in commercial titanium under conditions of electric heating are examined. Attempts to develop titanium-base alloys capable of withstanding temperatures over 400°C are discussed as are problems of titanium-powder metallurgy and veldability of certain titanium-base alloys. No personalities are mentioned. Most of the articles have bibliographic references, the majority of which are

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S/129/61/000/004/006/012 E073/E535

AUTHORS:

Golubeva, L. S. and Shchegoleva, R. P., Engineers

TITLE:

Structure and Mechanical Properties of High Alloy

Titanium Alloys

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,

1961, No.4, pp.28-30 + 1 plate

after heat treatment:

TEXT: The authors studied the cause of changes in the mechanical properties of the following two medium titanium alloys

Table 1

No.of alloy	Fe	Content. Mn	s in % Cr	Al
1	3	3	3	
2	. 3		5	3

These alloys are designed for manufacturing forgings and hot rolled tubes. The structure of the alloys after forging, Card 1/6

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Structure and Mechanical Properties...E073/E535

broaching or rolling is a three-phase one: β + α + ω . The quantity of the w-phase is small and therefore it is not always detected on X-ray diffraction patterns. Under certain conditions eutectoidal transformations and also formation of metastable, β and ω phases are observed. Blanks for the investigations were produced by powder metallurgy methods from titanium powder containing 0.12% Fe, 0.074% Si, 0.12% Ni, 0.022% Al, 0.052% Ca, 0.003% H, 0.18% 0, 0.01% N. The sintered blanks were forged into 16 mm diameter rods at 1000 to 700°C. Since titanium alloys of the binary systems Ti-Fe, Ti-Cr, Ti-Mn belong to the eutectoidal systems, the authors considered it of interest to establish the proneness of these alloys to embrittlement after annealing at 400, 500 and 600°C for 100 hours. The mechanical properties of forged rods and rods annealed at 700 and 800°C after heating for 100 hours at 400, 500 and 600°C are given in Table 2, each figure representing the average values of 5 tests. It can be seen from Table 2 that with increasing heating temperature the plasticity of alloy 2 decreases, whilst that of allow 1 increases. strength of the forged alloy 1 after 100 hours at 400, 500 and Card 2/6

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Structure and Mechanical Properties... E073/E535

600°C decreases, whilst its ductility increases; this is attributed to an increase in the quantity of the α -phase. Heating of the alloy 1 for 100 hours at 400, 500 and 600°C leads to the transformation $\beta + \alpha + \omega \rightarrow \beta + \alpha$. The strength of the annealed alloy 1 after heating for 100 hours at 400-600°C changes insignificantly, but tits ductility increases in the case of heating temperatures of 400 and 500°C and decreases for a heating temperature of 600°C. The increased ductility is attributed to an increase in the quantity of the a-phase, which also increases as a result of ageing. The ageing curves of the two alloys after quenching in water from 900°C are plotted in Fig.2, the top graph relates to alloy 1, the bottom graph to alloy 2. These curves indicate that both alloys contain a \$ stabilizer above the critical value. Whilst at ageing temperatures of 200, 300 and 400°C the rejection of the ω-phase. only is observed, in the case of ageing at 500°C formation of the ω -phase followed by formation of the α -phase was observed. There are 2 figures, 2 tables and 6 references: 4 Soviet and 2 non-Soviet.

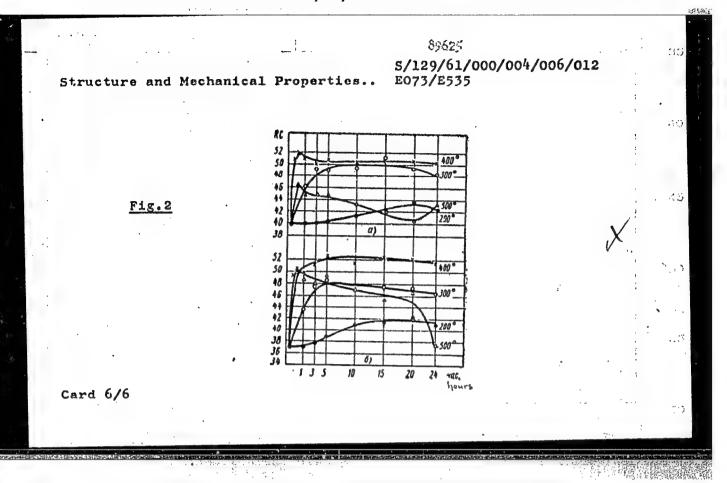
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	OTMHE 700°, 1 vac hpwr 400°, 100 vac hpwr 500°, 100 vac hpwrs 600°, 100 vac hpwrs	37,5 39 38 37,5	129.1 129.0 130.3 127.6	126,1 126,5 129,7 126,2	12.0 9.2 17.0 2.0	17.0 11.3 31.6 1.4			-6
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S/129/61/000/007/008/016 E073/E535

AUTHORS &

Shchernleva, R.P., Golubava, L.S. and Ruchiveva, N.A.,

Engineers

TITLE 2

Embrittlement of titantum-chromium alloys during

eutectoidal transformation

PERTODICAL: Metallovedeniye i termicheskaya obrabotka metallov, 1961, No.7, pp.35-36 + 1 plate

The diagram of state of the Ti-Cr system is characterized on the titanium side by a two-phase region $\alpha + \beta$ and a eutectoidal transformation $(\beta - \beta \alpha + \text{TiCr}_2)$ (Refs.1 and 2: P. Duwez, Taylor, I.L., TASM, v.44, 1952; A. D. McQuillan, Journal Institute of Metals, v.80, 1951=1952, respectively). This occurs at $670-675^{\circ}\text{C}$ and the speed of transformation is extremely slow (Ref.3; Bagryatskiy, Yu.A., Nosova, G.I., Tagunova, T.V., Zhurnal neorganicheskoy khimil AN SSSR, vol.3, issue 3, 1958). The structure of hypoeutectoidal alloys remains metastable $(\alpha + \beta)$ even after annealing. Heating of alloys in the $(\alpha + \beta)$ state below the eutectoidal transformation temperature may bring about a decomposition of the 8-phase, which is accompanied by embritlsment. The authors studied the influence of long duration holding Card 1/5

26196

Embrittlement of titanium-chromium ... S/129/61/000/007/008/016 E073/E535

at 300 to 600°C on the mechanical properties and the structure of Ti-Cr alloys. Commercially pure titanium of Parala (IMP-1A) was used (composition: 0.21% Fe, 0.062% Si, 0.16% Ni, 0.05% N. 0.03% C. 0.05% Ca and 0.2% O). The alloys were produced by powder metallurgy methods. The investigations were made on forged 16 mm diameter rods, which were held for one hour at 730°C, cooled in the furnace and, following that, heated additionally for durations of 1 to 300 hours at 300, 350, 400, 450, 500 and 600°C. It can be seen from the obtained results, which are tabulated, that heating at 300°C for 100-200 hours does not bring about a change in the mechanical properties. Heating at 350°C for 200-300 hours results in a slight decrease in plasticity, i.e. the contraction decreases to 14.3 and 16.1%, respectively from 19.9% Only a slight increase in strength and in the annealed state. Increase in the heating time at 400°C hardness were observed. from 25 to 200 hours leads to a drop in plasticity, the contraction The most pronounced embrittlement decreasing from 20,9 to 9,9%. occurs at 450, 500 and 600°C; holding for one hour at 600°C brings about a drop in the contraction by a factor of 2. The

Card 2/5

Card 3/5

Embrittlement of titanium-chromium ... S/129/61/000/007/008/016 E073/E535

authors considered it of interest to study the changes in the microstructurs which are associated with embrittlement. The shape of the rejected particles of the a-phase depends on the temperature conditions of the deformation: an Bacicular structure corresponds to terminating the forging above 800°C, a "granular" structure corresponds to a termination of the forging below Microstructure photographs are reproduced of an alloy 700°C。 with 5% Cr and an "acicular" structure after annealing and after additional holding at 500°C for 100 hours; the additional holding at this temperature produces darkened sections of the β -phase. X-ray structural investigations (carried out by Candidate of Technical Sciences T. V. Tagunova) have shown that in the annealed state the alloy has a two-phase a + \$ structure. additional holding at 350°C for 100 hours, the \$-phase lines become weaker and at 500 to 600 C they cease completely. No lines of the corresponding intermetallic TiCr compound were detected in this case. The microstructures of alloys with 10, 15 and 20% Cr revealed darkened \$-phase sections after annealing, followed by subsequent heating, whereby for alloys with a higher chromium

24194 Embrittlement of titanium-chromium... S/129/61/000/007/008/016 E073/E535 X

concentration a sutectoidal structure could be observed. In this case the X-ray patterns revealed lines corresponding to the TiCr₂ compound which were most clearly visible on alloys with 15 and 20% Cr. In these alloys sutectoidal β-phase decomposition is accompanied by an appreciable increase in hardness. Table 2 shows the hardness of alloys with 10 to 20% Cr.

Table 2

Chromium	content i	.n %	HRC	after annealing	HRC after anneal- ing at 600°C for 100 hours
	10			32	34
	15			37	39
	20			39	43

The data given prove that embrittlement of an alloy containing 5% Cr after long duration soaking below the eutertoidal temperature is due to eutertoidal β -phase transformation. Absence of lines corresponding to the TiCr₂ compound in an alloy containing 5% Cr is explained by the inadequate sensitivity of the X-ray method. There are 3 figures, 2 tables and 3 references: Card 4/5

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Embrittlement of titansum-chromium 5... \$/129/61/000/007/008/016 . E073/E535

1 Soviet and 2 non-Soviet.

ASSOCIATION: TaniichM

This is a complete translation except that Table 1 and microphotographs have not been included.

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Card 5/5

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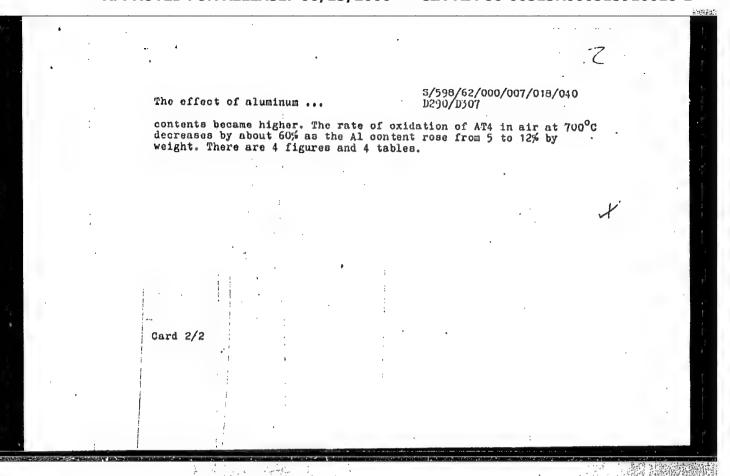
\$/598/62/000/007/018/040 D290/D307

AUTHORS: Kornilov, I. I., Mikheyev, V. S., Pylayeva, Ye. N., Volkova, M. A., Borok, B. A., Shchegoleva, R. F. and Golubeva, L. S.

TITLE: The effect of aluminum on the structure and properties of a Ti-Al-Gr-Pe-Si-B alloy prepared by powder metallurgy

SOURCE: Akademiya nauk SSSR. institut metallurgii. Titan i yego splavy. no. 7, Moscow, 1962. Metallokhimiya i novyye splavy, 130-134

TEXT: The authors studied the effect of varying amounts of Al in Ti-Al alloys (1 - 7% by weight Al) and in alloys of the Ti-Al-Gr-Pe-Si-B system (1.5 - 12% by weight Al) on the structure and properties of the alloys. Strength of the Ti-Al alloys increased from 17.2 to 107-3 kg/mm² as the Al content rose from 0 to 7%; the strength of alloy AT4 (AT4) increased from 104 to 142 kg/mm² as the Al content rose from 1.5 to 10%. Plasticities of the alloys decreased and the heat resistance of AT4 increased as the aluminum Card 1/2



s/598/62/000/007/019/040

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Kornilov, I. I., Pylayeva, Ye. N., Volkova, M. A., Borok, B. A., Shchegoleva, R. P. and Golubeva, L. S. AuTHORS:

The effect of silicon on the properties of a 6-component alloy of the system Ti-Al-Cr-Fe-Si-B prepared by powder metallurgy TITLE:

Akademiya nauk SSSR. inetitut metallurgii. Titan i yego splavy: no. 7, Moscow, 1962. Hetallokhimiya i novyye splavy, 136-139 SOURCE:

TEXT: The authors studied the effect of varying amounts of silicon TEXT: The authors studied the effect of varying amounts of silicon in Ti-Si alloys and in alloys of the system Ti-Al-Cr-Fe-Si-B on the properties of the alloys, in order to find the optimum Si concentration in alloy Arq (AT4). The mechanical properties were measured in both the forged and hot worked conditions. The strength of the Ti-Si alloy increased from 77.2 to 100.8 kg/mm² as the Si content increased from 0 - 2% while the strength of the alloy AT4 increased from 110 to 138 kg/mm² with the addition of 1.5% Si. Pla-Card 1/2

\$/598/62/000/007/019/040 D290/D307

The effect of silicon ...

sticities of the alloys dccreased with rising Si content. AT4 containing 0.5% Si withstands a continuous stress of 30 kg/mm² at 500°C for about 100 hours. The corrosion resistance of AT4 at 700°C is approximately doubled by the addition of 0.5% Si. There are 4 figures and 4 tables.

Card 2/2

5/129/63/000/002/006/014 E193/E383

Borok, B.A., Novikova, Ye.K., Golubeva, L.S., AUTHORS:

Shchegoleva, R.P. and Ruch'yeva, N.A.

Dilatometric studies of binary titanium-base alloys

TITLE: Metallovedeniye i termicheskaya obrabotka metallov, PERIODICAL: no. 2, 1963, 32 - 36

Dilatometric curves were constructed in the 20 - 900 °C range for the binary Ti-Fe, Ti-Cr, Ti-Co, Ti-Mo, Ti-V, Ti-Nb and Ti-Ta alloys containing 2-10% of the alloying elements, the constitution of these alloys was determined by metallographic and X-ray diffraction analysis, and the hardness of the alloys after various heat-treatments was measured. Experimental test pieces were prepared by powder metallurgy. No deflection points were obscrved on the dilatometric curves in the case of specimens annealed by heating to 800 or 900 °C with slow cooling; the slope of the curves was constant, indicating that the coefficients of thermal expansion of the alloys studied in the annealed condition were constant. The hardness of the annealed alloys was either equal to or higher than that of the specimens quenched from the 3-range, Card 1/4

S/129/63/000/002/006/014 E193/E383

Dilatometric studies ...

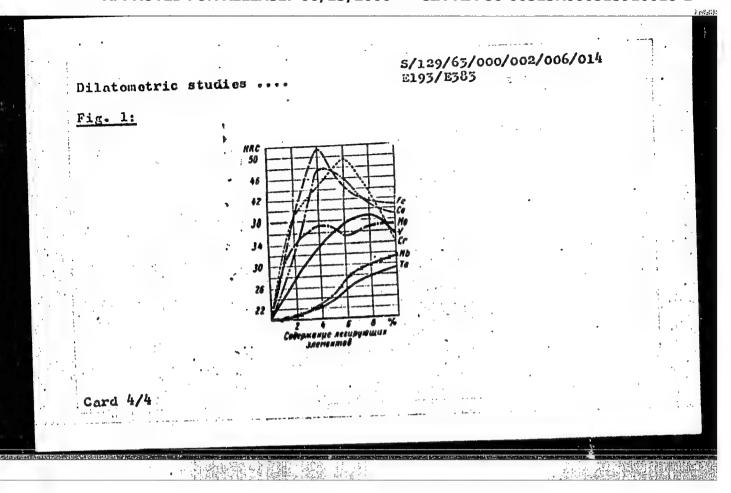
the effect of the alloying-elements content (%) on the hardness (HRC) of the quenched alloys being shown in Fig. 1. The dilatometric curves of alloys with a sufficiently high content of elements stabilizing the β -phase (Fe, Cr, Co) had deflection points in the temperature range of the w-transformation. The alloy with the critical (4%) concentration of Fe had in the quenched condition a two-phase (β + ω) structure and high (RC 51.5) hardness. dilatometric curve of this alloy showed no contraction associated with the formation of the ω -phase and the expansion due to a reversible $(\beta + \omega) \rightleftharpoons (\beta + \alpha)$ transformation started at 420 and ceased at 490 °C. In the case of the quenched alloy with 6% Fe, consisting of the β - and partially precipitated ω -phases (hardness 44.5), the ω -phase was precipitated completely on heating, as a result of which the hardness of the alloy increased to RC 53; the dilatometric curve showed a contraction associated with the $\beta \gtrsim \omega$ transformation in the 170 - 400 °C range and an expansion in the 475 - 500 °C interval, where the $(\beta + \omega) \leq (\beta + \alpha)$ transformation took place. The hardness of quenched alloys with 8% Fe, consisting of the stabilized β -phase, increased on heating from 41.5 - 53. The small contraction and expansion on the dilatometric curve of Card 2/4

S/129/63/000/002/006/014 E193/E563

Dilatometric studies

this alloy indicated only a partial precipitation of the w-phase. Similar effects were observed in the Ti-Cr alloys in which, however the volumetric changes were less pronounced; the critical Co content was about 3.5% in the case of the Ti-Co alloys. X-ray diffraction analysis showed that quenched specimens of the 4% Co-Ti alloy had a two+phase structure (β- and partially precipitated ω-phase); the precipitation of the ω-phase in this alloy on heating (indicated by an increase in hardness from 48 - 50 RC) was, for some unknown reason, not reflected by deflection points on the dilatometric curve. In the case of the Ti-blo alloys the volumetric effect was observed in the 10% No alloy only, indicating that the w-transformation did not take place in alloys containing 2 - 8% No. No deflection points were observed on dilatometric curves for the Ti-V, Ti-Nb and Ti-Ta alloys. This was attributed to the fact that the w-phase in these alloys could be formed only at a high concentration of the alloying elements (12 - 13% V, 23 - 30% Nb and 26 - 40% Ta). There are 3 figures and 1 table.

Gard 3/4



L 1288-63 KWP1 EMP(q)/EMT(m)/BDS--AFFTC/ASD-JD AUTHOR: Borok, B. A.; Golubeva, L. S.; Shchegoleva, R. P.; Ruch'yeva, K. A. TITLE: Mechanical properties and microstructure of sintered titanium alloys SCURCE: Poroshkovaya metallurgiya. no. 3. 1963. 88-98 TOPIC TAGS: sintered titanium alloys, mechanical properties, microstructure, grain size, alloying element effect, Fe, Mn, Cr, Mo, Al, V, M, Ta, Wb, Cu, Zr, Co, Ti-Al-V alloy, Ti-Al-V-Mo alloy, coreduction, oxide ABSTRACT: Several series of binary and ternary alloys of Ti with Al. Fe. Mn. Cr. Mo, W, V, Ta, Nb, Cu, Zr, and Co were sintered from commercial-grade 19.175 pure) Ti powder and powders of 99.5% pure Fe, 39.5% pure Ma, 39.59% Time Or, 99.54% pure Mi, 99.2% pure Co, electrolytic Ci, 77.7% pure V, 99.65% and the second series of Ti-V alloys were premine in correlation of oxide y widers with calcium hydride. Sintered speciment of the stree, acicular microatmixture, macrograins about 1 mm in dismeter, and a density of 97-97% of the thousestical. The results of mechanical tests (see Figs.) and 2 of Enclosure) show that all the alloying elements investigated increase the tensile strength 7, (2/55) -

L 11:288-63

ACCESSION NR: AP3001956

and decrease the ductility of sintered Ti alloys. Thy in Ti-V alloys prothe town coreduction of oxides does ductility introduction and increasing V at mr. Those alloys generally are core limited to a supermini titanian. The strong 5-phase stabilizers, Fe, Mn, and Or, which is no sensected trans-FOR 5-passe accountance, as, any A CONTRACTOR erama II all ys. there a in tensile strength and formain in the lift - Late, Ti-Ma, Ti-Or, and Ti-W alligo outstands tent have a metastable of + 8 structure with the within the entraint of the phase increasthe with higher alloying; the caphage has en approlar Widmontation cornecture. Il minum, an orphase stabilizer, appreciably increases the strength of sintered II-Al alloys without an extensive lecrease in labelity. The II-V and II-V: alloys have comparatively high tensile strength and ductility. In general, V, only Mo were found to be the best allowing elements for distance binary the continual investigation of sintered Tide -Valle and duration of the oxides) showed the Ti + % Al + The algorithm to durate the best off-That the of mechanical properties: tensile of record of Touch in maganeston red notch toughness 25.4 joule per cm? [1 joule/cm = ~ 0.1 m-kg/cm?]. An addition of 2% Mo to this alloy increases its tensile strength to 357.5 Mn/ma without lowering ductility. These two alloys are recommended for manufacturing parts by

· Card 2/5 2

ACCESSION NR: AP4040471

s/0226/64/000/003/0059/0063

AUTHOR: Borok, B. A.; Shchegoleva, R. P.; Golubeva, L. S.; Teplenko, V. G.; Reutova, N. P.; Ruch'yeva, N. A.

TITLE: Properties and microstructure of sintered Khl8N15 stainless steel made by joint reduction method

SOURCE: Poroshkovaya metallurgiya, no. 3 (21), 1964, 50-63

TOPIC TAGS: stainless steel, sintered stainless steel, carbonyl iron, sintered steel property, steel corrosion resistance, sintered steel structure

ABSTRACT: Investigations have been made of the properties of sintered Kh18N15 chromium-nickel stainless steel made from powder produced by the joint reduction of chromium and nickel oxides mixed with iron powders (Process A) and of steel made from mechanically mixed powders of carbonyl iron, reduced chromium, and electrolytic nickel (Process B). It was found that the density of compacts A was lower that that of B, but the latter had a very low compression strength. Adequate fluidity of powders and strength of compacts

ACCESSION NR: AP4040471

make powder A a very suitable material for rolling porous strips and sheets in continuous rolling mills. Compacts B sinter more easily than compacts A, but they are much more susceptible to exidation during the sintering. Compacts A, sintered at 1350C for 10 hr; had a density of 96-97% (compared to 71-85% for compacts B), tensile strength 47.8-53.5 dan/mm², elongation 29.2-43.4% and impact toughness (unnotched specimens) 19.8-29 kgm/cm². Sintered Kh18N15 steel has an austenitic structure with a low content of finely dispersed carbides. In the annealed state the steel has a high corrosion resistance; its corrosion rate in boiling 65% nitric acid is $0.1 \text{ g/m}^2 \cdot \text{hr}$ compared to $0.2 \text{ g/m}^2 \cdot \text{hr}$ for conventionally made X18H15. This is explained by a low content of impurities in powder A. Orig. art. has: 8 tables and 9 figures.

ASSOCIATION: Tsentral'ny*y nauchno-issledovatel'skiy institut chernoy metallurgii (Central Scientific Research Institute of Ferrous Metallurgy)

Card 2/3

ACCESS	CON NRt /	AP4040471		!					
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ACCESSION NR	AT5022891	1347	
AUTHOR: She	hegolova, R. P.; Reutova, N. P. L. N. 94,55	.; Golubeva, L. S.; Poplavskaya, V. L.;	
mrm P. Powd	ered-metal stainless chrome ar	d chrome-nickel steels	
/SCURCE: Mos	cow. Tsentral'nyy nauchmo-iss Sbornik trudov, no. 43, 1965. I	ledovatel'skiy institut chernoy me- Poroshkovaya metallurgiya (Powder metal-	-
TOPIC TAGS:	powder metallurgy, stainless	steel, chromium steel, nickel steel,	
ABSTRACT:	esistance It is shown that the powders o he ferritic, austenitic, and m	f stainless chrome and chrome-nickel artensitic-austenitic classes, prepared	
by the meth suitable fo	r the industrial fabrication of method of powder rolling. T	f metal oxides by means of CaH2, are f porous and compact sheets and strips he flowsheet of production of these sterials iron powder (carbonyl and), nickel (electrolytic, carbonyl)	
Card 1/3			

L 2847-66 ACCESSION NR: AT5022891 2

powder or NiO, Ni₂O₃, calcium hydride (CaH₂); charge blending (2.5 hr); reduction at 1175°C for 6-8 hr, Cr₂O₃ + 3CaH₂ = 2Cr + 3CaO + 3H₂; crushing of sinter; slaking with H₂O and pulverization; hydrocyclone treatment of pulp; leaching — Ca(OH)₂ + 2HCl = CaCl₂ + 2H₂O; washing to remove CaCl₂; centrifuging; vacuum drying, 60-70°C. Sintered stainless steels display high physical properties, which warrants recommending them for the fabrication of the elements and devices performing in aggressive media. When pressed under a pressure of 10 t/cm² and subjected to deformation and heat treatment, powdered-metal stainless steels are not inferior to steels produced by the smelting method as regards their physical properties and corrosion resistance. Thus, for example, corrosion tests of Khl8Nl5 stainless austenite steel in a 65% solution of boiling HNO₃ demonstrated the high corrosion strength of this steel, not inferior to that of deformed cast steel (corrosion rate O.1-O.16 g/m²-hr). Evidently these good qualities of powdered-metal stainless steels are attributable to the low content of impurities in the powders prepared by the combined oxide reduction method. Orig. art. has: 10 figures, 9 tables.

ASSOCIATION: none

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L 2847-66 ACCESSION NR: AT5022891				0
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L 2679-66 EWP(e)/EWT(m)/EWA(d)/EWP(t)/EWP(k)/EWP(z)/EWP(b) IJP(c) ACCESSION NR: AT5022892 JD/HW. UR/2776/65/000/043/0099/0108 AUTHOR: Solov'yeva, Z. V.; Golubeva, L. S.; Shchegoleva, R. P.; Ruch'yeva, A.; Kudinova, K. G. 14.55 TITLE: Investigation of the properties and production conditions of michrome powder SOURCE: Moscow. Tsentral'nyy nauchno-issledovatel'skiy institut chernoy metal-lurgii? Sbornik trudov, no. 43, 1965. Poroshkovaya metallurgiya (Powder metal-15 44,55 TOPIC TAGS: nichrome alloy, powder alloy, nonmetallic inclusion, sintering, solid solution, twinning, heat resistant alloy, resistivity ABSTRACT: In view of the deviations observed in the technological properties of the products fabricated from the powder of Kh20N89/Michrome alloy prepared by the method of the combined reduction of metal oxides with Cali developed by the Central Scientific Research Institute of Ferrous Metallurgy, the authors performed a thorough investigation of the parameters of the process. Gas analyses and manuflographic examinations established that nichrome powders obtained at Card

L 2679-66

ACCESSION NR: AT5022892

oxide-reduction temperatures of 900-1100°C (for 6 hr) contain a considerable amount of non-metallic inclusions, associated with the higher content of oxygen. This condition is corrected (the oxygen content is reduced to the required minimum of 0.4% and the microstructure becomes homogeneous) by raising to 1175°C the reduction temperature and performing reduction for 6-8 hr (6 hr for 219-mm diameter retort and 8 hr for 273-mm diameter retort). However, while the powder prepared at 1175°C for 6-8 hr displays the optimal compactibility, its sinterability is much lower than in powders prepared at lower reduction temperatures (900-1100°C), which evidently is attributable to the activizing effect of oxygen as well as to granulometric composition. Since, the oxygen content may not exceed 0.04%, it appears that sinterability can be improved only by altering the granulometric composition of the powder. This composition can be regulated within broad limits by pulverizing the sinter (pulp) for 0.5, 1.0, 1.5, and 2 hr. To evaluate its quality, the powdered-metal nichrome prepared on the basis of the above improvements was subjected to heat treatment and cold working and tested for physical properties. Specimens compacted under a pressure of 6.0-6.8 tons/cm² and sintered at the maximum temperature (1375°C) were found to display the highest ultimate strength and plasticity. Wire of 0.5-2.0 mm diameter fabricated from sintered briquets displays, following its heat treatment (water quenching from

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ACCESSION NR: AT5022892

870°C), physical properties as high as those of standard nichrome wire. Following its sintering, as well as following its forging in the temperature range 1000-1200°C, the powdered-metal nichrome has the monophase structure of a nickelbase solid solution with grain boundaries clearly revealed by etching. Following its annealing at 800 or 900°C the nichrome displays the typical structure of nickel austenite; the grain orientation changes and a large number of twins appears. In addition to their high heat resistance and resistance to oxidation at high temperatures, the products fabricated from such nichrome powder display a high resistivity (1.07-1.12 ohm-mm²/m). Orig. art. has: 10 figures, 6 tables.

ASSOCIATION: none

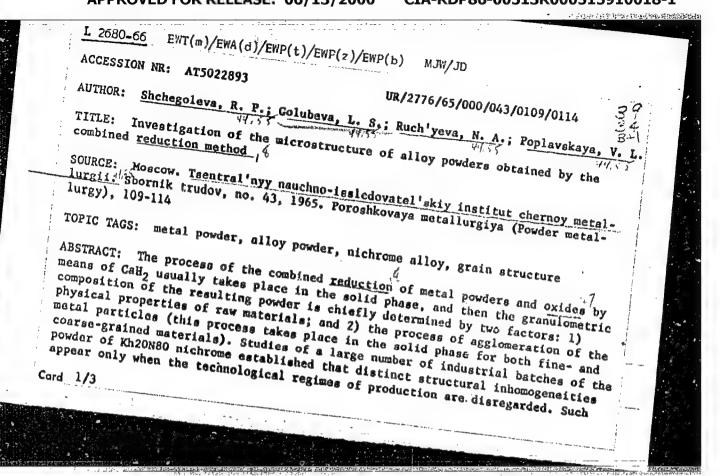
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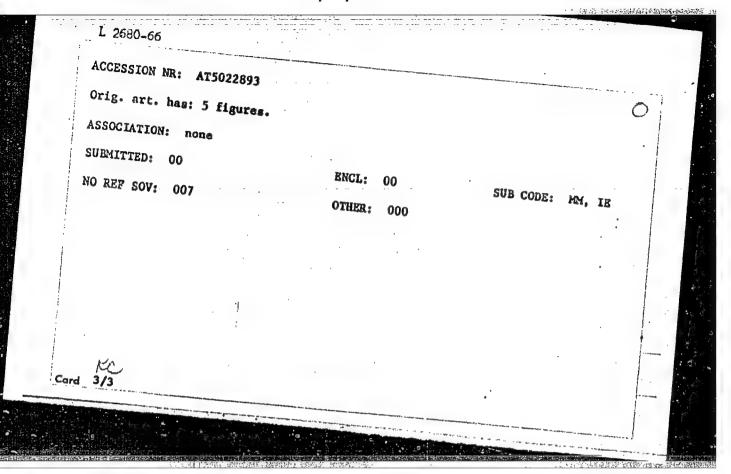


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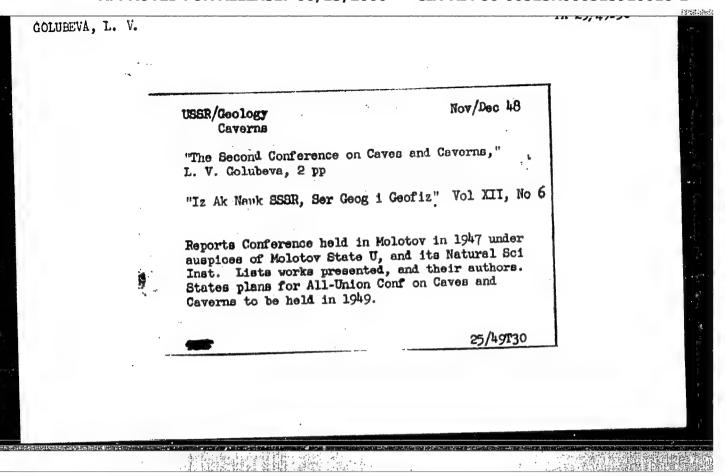
ACCESSION NR: AT5022893

inhomogeneities are manifested in the form of the presence of a second phase although no such phase was revealed by radiographic examination. A microscopic examination of the Sulin and Tula iron powders revealed, along with particles having ferrite structure, isolated particles with ferrite + pearlite structure conditioned by a higher content of C. Such nonuniformity of individual particles as regards C content also persists in Khl8N15 steel. Particles with two-phase structure have been observed in individual industrial batches of Fe-Al master alloy powder which indicates violations of the technological regime of charge blending, mixing, and reduction. The microstructural inhomogeneity of the powder of Kh18N15 steel, conditioned by its content of alloy elements, is greater if the comparatively coarse-grained Sulin and Tula iron powders are used as part of the raw materials. In this case an appreciable amount of α -phase is observed in the microstructure of the large particles. If, on the other hand, this steel, as well as Kh20N80 nichrome alloy, is prepared from fine-grained raw materials, the resulting powders will display some inhomogeneity with respect to the content of alloy alements, owing to their extremely weak ferromagnetic properties. All this, however, is no reason for rejecting the powders as defective, since, being chiefly destined for processing into metallurgical products, they are subjected to sintering, which involves complete homogenization of their composition.

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L 20668-66 EMP(a)/EMP(w)/EMP(w)/EPF(n)-2/T/EMP(t)/EMP(k)/ETC(m)-6 TJP(a) JD/TG/	7
L 20669-66 EMP(a)/EMP(w)/EMP(w)/EPF(n)-2/17/EMP(1)/	7 -
WW/HM/JG/EM	
UTHOR: Shchegoleva, R. P.; Golubeva, L. S.; Litvin, D. F.; Ponyatov-	
skiy, Ye. G.; Zhirkin, Yu. N.	
ORG: Central Scientific Research Institute of Ferrous Metallurgy	
ORG: Central Scientific Research Institute of the Chernoy metallurgii) (Tsentral nyy nauchno-issledovatel skiy institut chernoy metallurgii)	
	1
FITLE: The Zr-Ti-O-Re deformable alloy for high-pressure chambers	
SOURCE: Poroshkovaya metallurgiya, no. 12, 1965, 45-47	
SOURCE: Porosnkovaya macarrang-	
ropic TAGS: deformable body, high strength alloy, high alloy steel,	
ropic TAGS: deformable body, nigh strength alloy, had chamber, metal coherent scattering, neutron scattering, high pressure chamber, metal	1 .
coherent scattering, neutron scattering, near pro-	
forging, ultimate strength	
war and the standard designed for high-	
ABSTRACT: Sintered Zr-Ti-O-Fe deformable alloy designed for high-	
ABSTRACT: Sintered Zr-Ti-O-Fe deformable actors during neutronographic pressure chambers was developed by the authors during neutronographic	g ·
pressure chambers was developed by the authors during tion corresponding investigations of materials. The alloy has a composition corresponding investigations of materials. The alloy has a composition corresponding to the contract of the	
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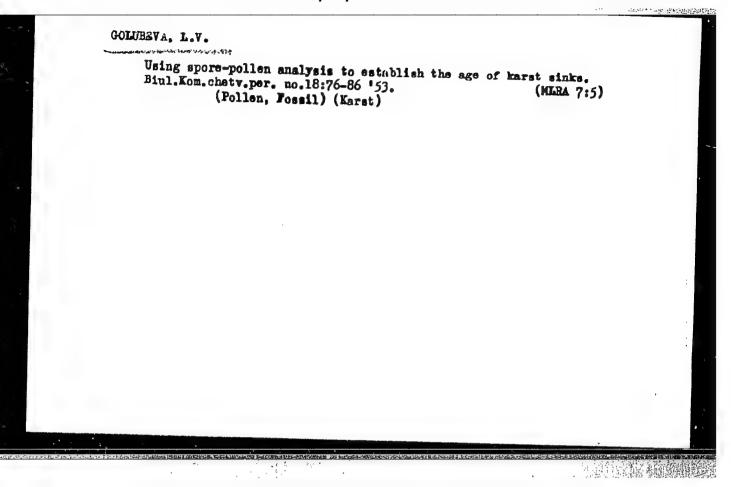
COLUBEVA, L. V. Karatovo-speleogicheskaya stantsiya zapovednika
"Frodural'c". Priroda, 1949, No. 7, 5, 87-88.

S0: Letopis, No. 32, 1949.

- 1. MAKSIMOVICH, G. A.: GOLUBEVA, L. V.
- 2. USSR (600)
- 4. Karst
- 75 Genetic types of sink holes. Dokl. AN SSSR 87 No.4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910018-1"



GOLUBEVA, I.V.

Company of the Party of the Par

Chemical composition of waters of some Karst lakes in the Molotov district. Gidrokhim.mat. no.21:81-85 '53. (MLRA 7:3)

1. Yestestvenno-nauchnyy institut pri Molotovskom universitete.
(Molotov district--Lakes) (Lakes--Molotov district)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910018-1"

这一个人是被精神的

·大學學數 [18]的一个

- 1. GOLUBEVA, L. V.
- 2. USSR (600)
- 4. Karat
- 7. Density of karst holes in different geomorphological conditions, Dokl. AN SSSR, 90, no. 1, 1953.

Natural Sci. Inst. at Molotov State U. im. Gor'kiy

Presentation of data of 3 typical karst areas of the Prikam'ya region: (1) area formerly the Predural'ye Eational Park; (2) valley of the lower course (Kungurskiy Rayon) of the Irena River; and (3) valley of the middle course (Ordinskiy Rayon) of the Irena River. Presented by Acad. D. V. Nalivkin 12 Mar 53.

259151

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.

15-1957-10-13705

Referativnyy zhurnal, Geologiya, 1957, Nr 10, Translation from:

p 41 (USSR)

AUTHOR:

Golubeva, L. V.

TITLE:

The Results of Pollen-Spore Analyses of Some Quaternary

Deposits in Kishertskiy Rayon of Molotovskaya

Oblast' (Rezul'taty sporovo-pyl'tsevykh analizov nekotorykh chetvertichnykh otlozheniy v Kishertskom rayone

Molotovskoy oblasti)

PERIODICAL:

Izv. Yestestw.-nauchn. in-ta pri Molotovsk. un-te, 1956,

vol 13, Nr 9, pp 175-190

ABSTRACT:

The paper cites the results of pollen-spore analyses of samples collected by hand drilling from the deposits on the terraces of the Sylva River (the first terrace above the flood plain in the region of Ust'-Kishert'), the Kishertka River (the first terrace above the flood plain and the high flood plain), and the area along the divide

1.5 km northwest of W. Chastyye. . Pollen of wo varieties (birch) predominates among the spores and , Pollen of woody

Card 1/3

 C_{i}

the total. The entire is of the forest type (mixed

CIA-RDP86-00513R00051591

The Results of Pollen-Sport Analyses of Some Quaternary Deposits in

conifer and broad-leaved). The content of broad-leaved pollen in the middle part of the section is 16% (more than in drill-hole No. 1). From a study of the pollen, the author has marked out the principal stages in the plant history of the region; with the broad-leaved varieties becoming more abundant; and 3) sequence with that proposed for the Holocene of the proposed and the Molotovskove Prikam'ye (Kama River region near Molotov) described in the present report to the Holocene.

Card 3/3

R. We. Giterman

APUKHTIN, N.I.; BOGRETSOVA, T.B.; BOCH, S.G. [decessed]; GERESHIN, G.S.;
GOLUBEVA, L.V.; GROMOV, V.I.; KHASNGV, I.I.; MIKHAYLOV, B.M.;
NIKIFOROVA, K.V.; NIKOLAYEV, N.I.; POKROVSKAYA, I.M.; POPOV, V.V.;
PRINTS, R.N.; RAVSKIY, E.I.; SHANTSER, Ye.V.; EPSHTEYN, S.V.;
YAKOVLEVA, S.V.; FEODOT'YEV, K.M., redaktor izdatel'stva; KASHINA,
P.S., tekhnicheskiy redaktor

[Concise field manual for a comprehensive geological survey of the Quaternary] Kratkoe polevoe rukovodstvo po kompleksnoi geologicheskoi s memke chetvertichnykh otlozhenii. Sost. N.I.Apukhtin i dr. Moskva, 1957. 201 p. (MLRa 10:0)

l. Akademiya nauk SSSR. Geologicheskiy institut. 2. Moskovskiy geologo-rasvedochnyy institut (for Shantser). 3. Geologicheskiy institut Akademii nauk SSSR (for Nikiforova, Ravskiy, Golubeva) 3. Vsesoyuznyy Nauchno-issledovatel'skiy geologicheskiy institut Ministerstva geologii i okhrany nedr SSSR (for Ganeshin, Bogretsova, Mikhaylov). 4. Voyenno-inshenernaya akademiya im. Kuybysheva (for Popov). 5. Trest "Mosgeolnerud" (for Prints). 6. Severo-Zapadnoye geologicheskoye upravleniye (for Apukhtin) (Geology, Stratigraphic)

AUTHOR:

Golubeva, L. V.

20-114-3-53/60

TITLE:

On the Significance of Determining the Pollen of Different Species of the Genus Betula L. for Stratigraphic Purposes of Quaternary Deposits (K voprosu o znachenii opredeleniya pylitsy vidov roda Betula L. dlya tseley stratigrafii chetvertichnykh otlozheniy)

PERIODICAL:

Doklady Akademii Nauk SSSR, 1957, Vol. 114, Nr 3, pp. 645-647(USSR)

ABSTRACT:

The composition of the spore-pollen spectra of the Quaternary sediments of many Northern districts shows that during the Quaternary birches played a substantial part in the formation of the flora. While studying these spectra in the Northern part of the West Siberian plains, the author of the paper under review felt it necessary to determine also the birch species. The reason for this is the fact that solely determinations of the ganus of the pollan as far as the genus is concerned do not make it possible to determine the flora type correctly. The relative climatic changes in this area found their expression in changes in the types of the forest and of the tundra. On the basis of the rich occurrence of

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On the Significance of Determining the Pollen of Different Species of the Genus Betula L. for Stratigraphic Purposes of Quaternary Deposits

birch pollen alone it was difficult to decide whether the spectra under investigation reflected forests or an open landscape. Among birches there exist both trees and shrubs, among the latter some are small as, for instance, the Betula nana. Determination of the species of the birches has often made it necessary to modify earlier conclusions and thus either to obtain a more accurate picture, or to revise the existing picture, of the stratigraphic position of the one or the other level. The author of the paper under review succeeded in determining the pollen of B. pubescens, vurrucosa, nana and humilis. In such a determination, it is essential to pay great attention to the entirety of the morphological characteristics. The size of the pollen, being dependent on different causes and being most variable, is less important. The author of the present paper employed in her investigations the acetolytic working method (mixture of acetal aldehyde and sulphuric acid). The present paper lists some examples in order to demonstrate the necessity of determining the species. In cases of poor preservation where it is impossible to determine the species it would be necessary at least to single out sections, as in this case Nanae

Card 2/3

On the Significance of Determining the Pollen of Different Species of the Genus Betula L. for Stratigraphic Purposes of Quaternary Deposits

Rgl. (birch shrubs) and Albae Rgl. (birch trees). Determination of different birch species has already found its way into the practical spore-pollen analysis. It would be of advantage to continue. investigations in this direction. There are 1 figure and 3 references, 1 of which is Soviet.

ASSOCIATION: Geo.

Geological Institute AS USSR

(Geologicheskiy institut Akademii nauk SSSR)

PRESENTED:

December 7, 1956, by V. N. Sukachev, Member of the Academy

SUBMITTED.

December 6, 1956

Card 3/3

Paleophytological evidence stratigraphy of quaternary deposits of the

northwestern regions of the West Siberian Plain. Dokl. AN SSSR 117 no.1:115-116 N-D '57. (MIRA 11:3)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom N.S. Shatskim.

(West Siberian Plain-Geology, Stratigraphic)

GOLUBEVA, L.V.

Stratigraphic plan of Quaternary sediments in the northwestern part of the West Siberian Plain and its paleophytologic basis.

Izv. AN SSSR. Ser. geol. 23 no.2:44-54 F '58. (MIRA 11:5)

1. Geologicheskiy institut AN SSSR, Moskva.
(West Siberian Plain--Geology, Stratigraphic)

GOLUBEVA, L. V.: Master Geolog-Mineralog Sci (diss) -- "The paleophytological principles of the stratigraphy of Quaternary deposits of the northwest portion of the west-Siberian lowland (The basin of the lower course of the Ob')". Moscow, 1959. 17 pp (Acad Sci USSR, Geol Inst), 140 copies (KL, No 17, 1959, 106)

RAVSKIY, E.I.; GOLUBEVA, L.V.

Bopleistocene of the Tunka Depression. Dokl. AN SSSR 135 no.5:1207-1210 D:160. (MIRA 13:12)

1, Geologicheskiy institut AN SSSR. Predstavleno akademikom N.S. Shatskim.
(Tunka Depression-Geology, Stratigraphic)

GOLUBEVA, L.V.; RAVSKIY, E.I.

Quaternary of Tunkinskiye troughs. Trudy Kom.chetv.per. 19:240-259 62. (MIRA 16:1) (Tunkinskiye Gol'tsy Gange—Geology, Stratigraphic)

ZAKLINSKAYA, Yelena Dmitriyevna; VAKHRAMEYEV, V.A., red.; GOLUBEVA, L.V., red.; CHEPIKOVA, I.M., red.izd-va; KASHINA, P.S., tekhn.red.

[Angiosperm pollen and its significance for the stratigraphy of the Upper Cretaceous and Paleogene] Pyl'tsa pokrytosemiannykh i ee znachenie dlia obosnovaniia stratigrafii verkhnego mela i paleogena. Moskva, Izd-vo Akad. nauk SSSR, 1963. 255 p. fold. diagrs. inserted. (Akademiia nauk SSSR. Geologicheskii institut. Trudy no.74). (MIRA 16:10)

ALEKSANDROVA, L.P.; VANGENGEYM, E.A.; GERBOVA, V.G.; GOLUBEVA, L.V.; RAVSKIY, E.I.

New data on a section of Quaternary sediments of Mount Tologoy (western Transbaikalia). Biul.Kom.chetv.per. no. 28:84-101 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910018-1"

GITERMAN, R.Ye.; GOLUBEVA, L.V.; ZAKLINSKAYA, Ye.D.; KORENEVA, Ye.V.; MATVEYEVA, O.V.

Features of the vegetation cover of Kazantseva Interglacial Siberia. Dokl. AN SSSR 152 no.4:937-940 0 '63. (MIRA 16:11)

1. Geologicheskiy instutut AN SSSR. Predstavleno akademikom V.N. Sukachevym.

RAVSKIY, E.I.; ALEKSANDROVA, L.P.; VANGENGEYM, E.A.; GERBOVA, V.G.;

GOLUBEVA, L.V.; PEYVE, A.V., glavnyy red.; NIKIFOROVA, K.V.,
otv. red.; KUZNETSOVA, V.V., red.; TIMOFEYEV, P.P., red.

[Quaternary sediments in the south of Eastern Siberia.]
Antropogenovye otlozheniia iuga Vostochnoi Sibiri. Moskva,
Nauka 1964. 279p. (Akademiia nauk SSSR. Geologicheskii
institut. Trudy, no.105) (MIRA 17:10)

GOLUBEVA, L.V.; RAVSKIY, E.I.

Climatic time phases of the Zyryanka glaciation in Eastern Siberia. Biul. Kom. chetv. per. no.29:132-148 *64.

(MIRA 17:8)

GOLUBEVA, L.V. ..

Types of periglacial vegetation of the Pleistocene of Eastern Siberia. Dokl. AN SSSR 155 no. 4:810-813 Ap '64. (MIRA 17:5)

1. Geologicheskiy institut AN SSSR. Predstavleno akademikom V.N. Sukachevym.

GITERMAN, R.YE.; GOLUBEVA, L. V.

"Developmental history of the v egetation of eastern Siberia during the Anthropogene Period."

report submitted for the 7th Intl Cong, Intl Assoc for Quaternary Research, Boulder & Denver, Colorado, 30 Aug-5 Sep 65.

GITERLAN, R.Ye.; GOLUBEVA, L.V.; KORENEVA, Ye.V.; MATVEYEVA, O.V.

Characteristics of the vegetative cover of the Zyryanka glacial period in Siberia. Izv. AN SSSR. Ser. geol. 30 no.3:115-128 Mr '65. (MIRA 18:3)

1. Geologicheskiy institut AN SSSR, Moskva.

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STEPANYAN-TARAKAHOVA, A.M., doktor med.nauk, GOLUBEVA, L.Ya., kand.biol.nauk ZIKEYEVA, V.K., (Moskva)

Role of the nervous system in the pathogenesis of various forms of obesity and the changes produced by medical diet. [with summary in English]. Problendok, i gorm. 4 no.4:52-64 Jl-Ag '58 (MIRA 1146)

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i laboratorii vysshey nervnoy deyatel'nosti (zav. - prof. A.I.
Makarychev) Instituta pitaniya AMN SSSR (dir. - chlen-korrespondent
AMN prof. O.P. Molchanova).

(CBESITY, etiol. & pathogen.

NS disord., speical diet ther. (Rus))
(MERVOUS SYSTEM, dis.

in obesity, speical diet. ther. (Rus))
(DIETS, in various dis.

obesity caused by NS disord. (Rus))

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Reflection of inhibition in animal electroencephalograms. Trudy Inst. vys. nerv. deiat. Ser. fiziol. 3:68-81 '59. (MIRA 12:3)

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(INHIBITION)

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ZAKHARYCHEVA, A.A.

Effect of combined therapy on patients with the cerebroendocrine form of obesity. Vop. pit. 18 no. 6:16-24 N-D '59. (MIRA 14:2)

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Cerebral cortex dynamics in patients with obesity during various stages of treatment. Vop. pit. 21 no.2:41-47 Mr-Ap '62.

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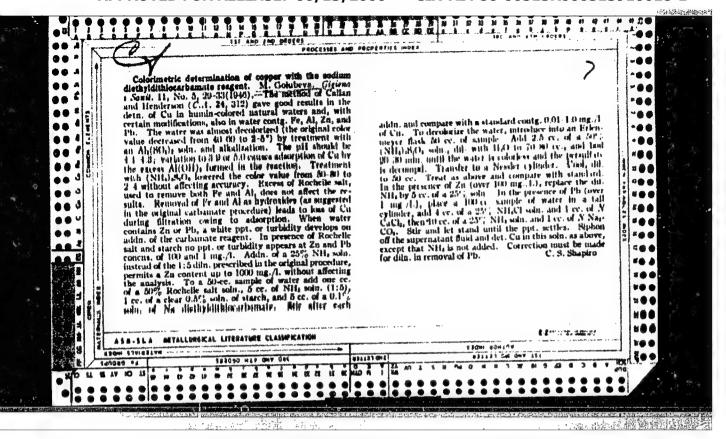
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(CEREBRAL CORTEX)

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3. Byuro tekhnicheskoy informatsii Darnitskogo shelkovogo
kombinata (for Shapoval). 4. Nauchnyy rukovoditel' Ivanovskogo
nauchno-issledovatel'skogo instituta khlopchatobumazhnoy
promyshlennosti (for Aristov). 5. Nachal'nik otdela tekhnicheskogo
kontrolya Leninakanskoy pryadil'noy fabriki (for Chartoryan).

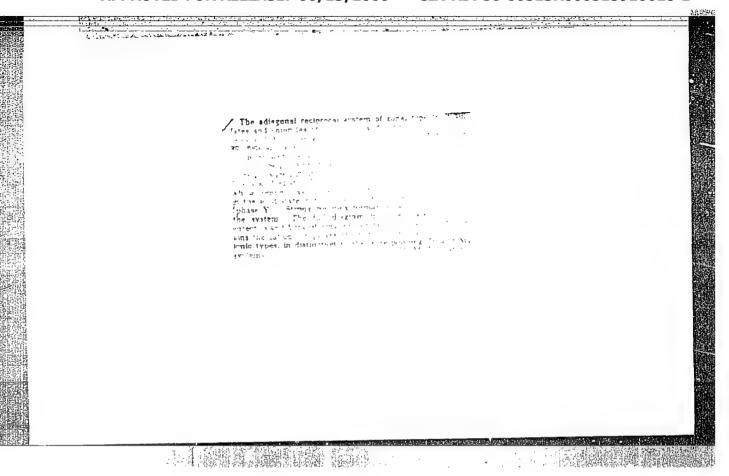


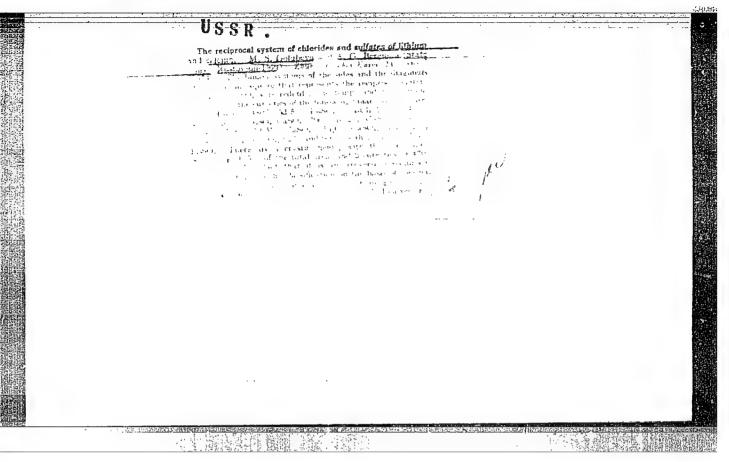
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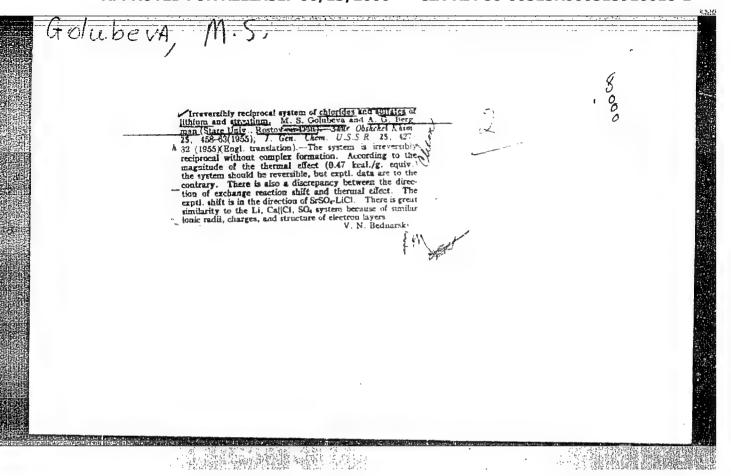
Salts, Double

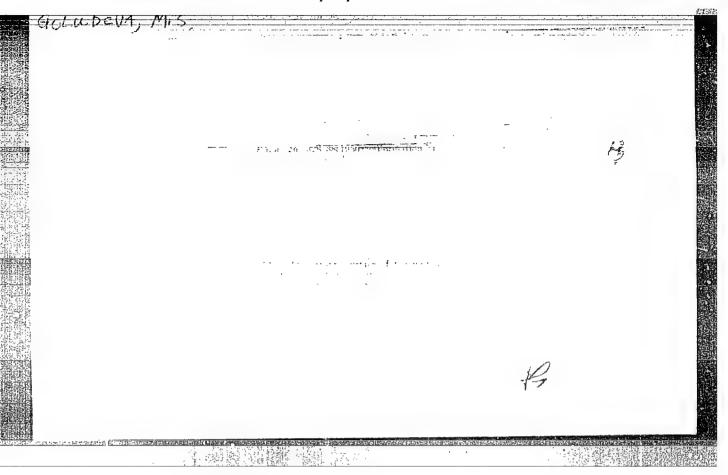
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GOLUBEVA, M.S.; BERGMAN, A.G.; GRIGOR'YEVA, Ye.A.

Ternary reciprocal systems consisting of: 1) potassium and sodium acetates and thiosulfates, and 2) thiocyanates and thiosulfates of the same metals. Uch.zap. RGU 41:145-154 '58. (MIRA 15:1) (Systems (Chemistry))

05884

5(2) SOV/78-4-11-37/50

AUTHORS: Golubeva, M. S., Aleshkina, N. N., Bergman, A. G.

TITLE: The Melting Diagram of the Ternary Systems of Sodium- and

Potassium Acetates, Rhodanides and Thiosulphates

PERIODICAL: Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 11,

pp 2606-2610 (USSR)

ABSTRACT: The reason for investigating these systems was the necessity of

finding low-melting baths for sulphidizing the surface of metal products. The binary system (NaCNS)2 - (CH3COONa)2 forms a

eutectic. The binary systems $(NaCNS)_2 - Na_2S_2O_3$ and $(CH_2COONa)_2 - Na_2S_2O_3$ could not be investigated since the

components decompose on heating before they are melted. The ternary system Na $^+$ || CNS $^-$, S $_2$ 0 $_3^{2-}$, CH $_3$ COO $^-$ (Table 1, Figs 1, 2)

has three crystallization fields of its components meeting in the eutectic point at 222° and the composition of 32% (CH2COONa)2,

40% (NaCNS)₂, 28% $Na_2S_2O_3$. In the binary system

Card 1/2 (KCNS)₂ - (CH₃COOK)₂, the compound 2KCNS.CH₃COOK melting at 134°

The Melting Diagram of the Ternary Systems of SCY/78-4-11-37/50 Sodium- and Potassium Acetates, Rhodanides and Thiosulphates

is formed. The system (KCNS)₂ - K₂S₂O₃ could only be investigated because of decomposition of the organic component on heating up to a content of 35% K₂S₂O₃, the system (CH₃COOK)₂ - K₂S₂O₃ only up to a content of 25% K₂S₂O₃. The ternary system K⁺|| CNS°, S₂O₃ · CH₃COO° (Fig 3, Table 2) forms four crystallization fields, three of the components and one of the compound 2KCNS.CH₃COOK. The two ternary systems could not be completely investigated either, since the thermal stability decreases with an increasing thiosulphate content, and decomposition occurs. There are 5 figures, 2 tables, and

SUBMITTED: June 16, 1958

Card 2/2

GOLUBEVA, M.S.; GABRILENKO, Z.I.

Ternary reciprocal system consisting of potassium and strontium chlorides and sulfates. Zhur. neorg. khim.

5 no. 12:2812-2818 D '60. (MIRA 13:12)

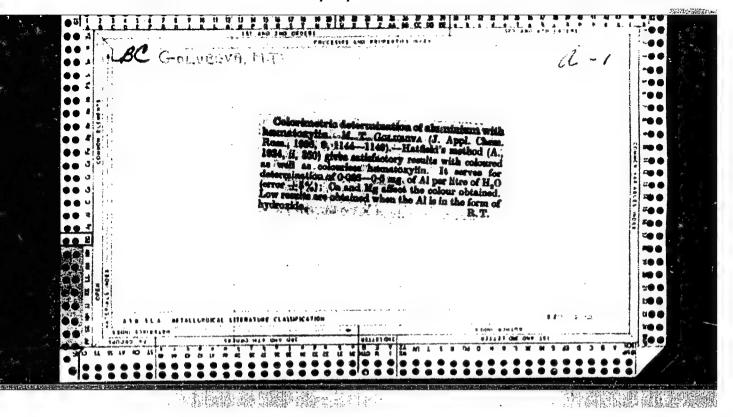
(Potassium chloride) (Strontium chloride)

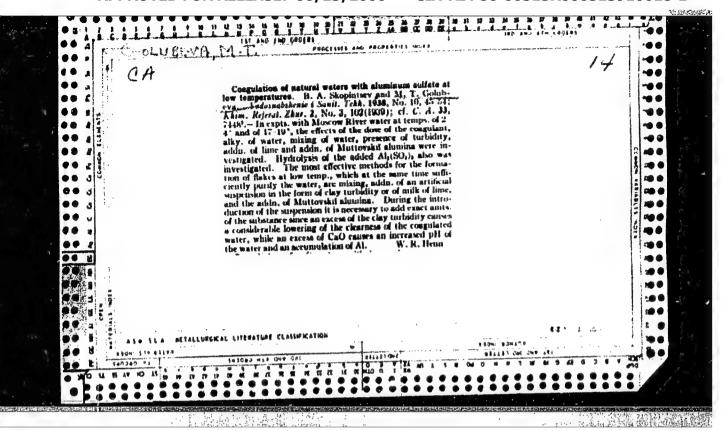
(Potassium sulfate)

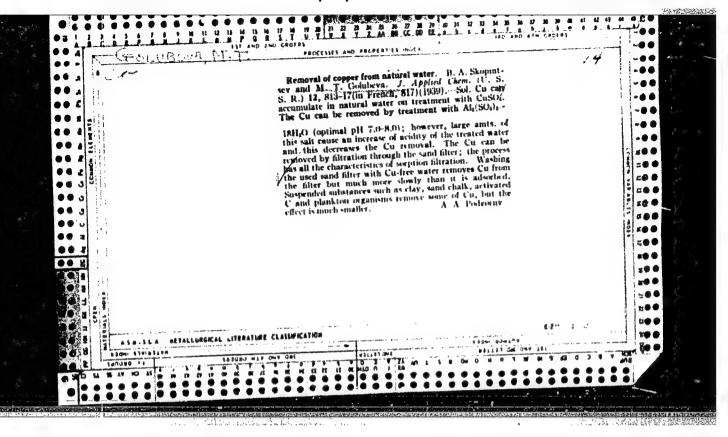
(Strontium sulfate)

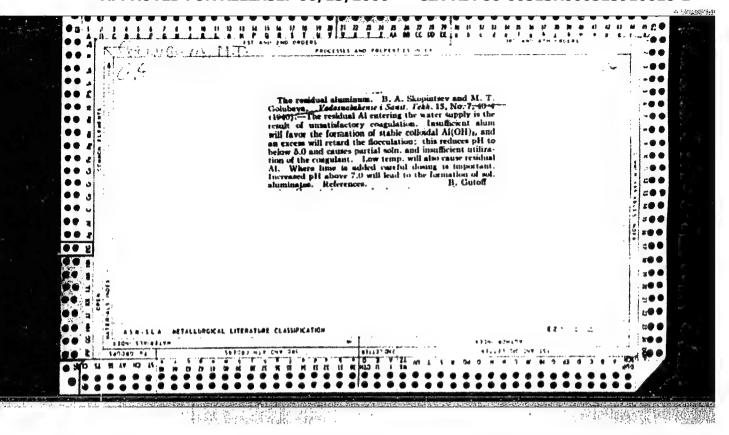
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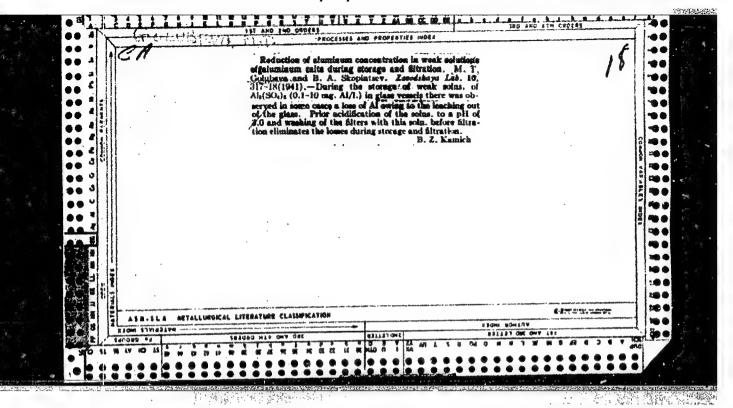
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BRUYEVICH, S.V.; SOSUNOVA, I.N.; GOLUBEVA, M.T.; BRUK, Ye.S.;
MOGILEVSKIY, Ya.A.; RUFFEL', M.A.; KORSH, L.Ye.; ANOKHIN, V.L.;
BYLINKINA, A.A.; MEL'NIKOV, Ye.B., red.; BEL'CHIKOVA, Yu.S.,
tekhn.red.

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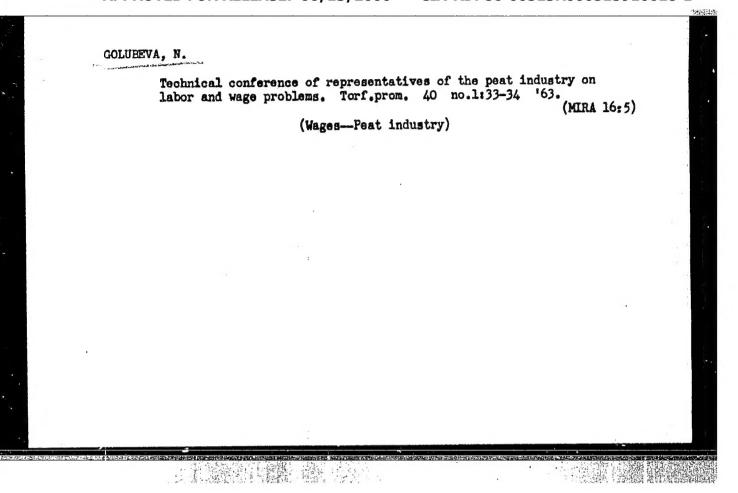
(MIRA 13:11)

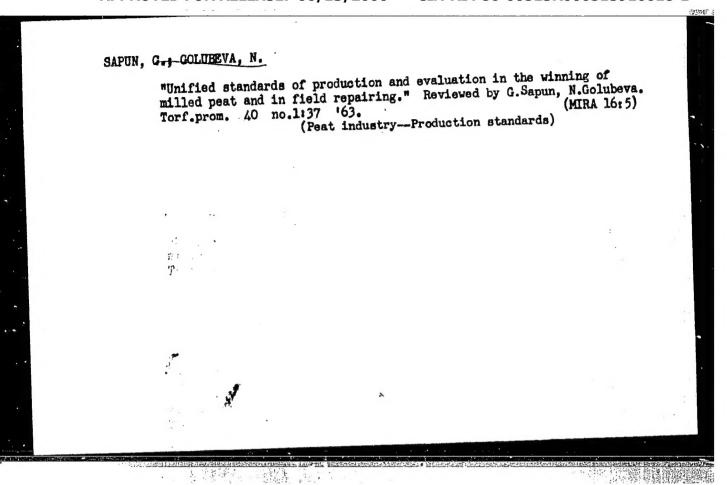
(Water---Analysis)

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[PURP-1 device for checking and regulating galvanometric processes] Pribor kontrolia i upravleniia rezhimami gal'vanicheskikh protsessov (PURP-1). Leningrad, Gos. soiuznoe izd-vo sudostroit.promyshl., 1960. 42 p. (MIRA 13:11)

(Electroplating)